



# Water and Development Research Group

WDRG is a multi- and interdisciplinary research group, working rigorously on various aspects of water. Our research themes vary from "water for food" to the "role of power and politics in water management". WDRG has a strong modeling knowledge on big data and spatial analysis from local to global scale.

## New publications

D. Zhao et al. (2021)

**Quantifying economic-social-environmental trade-offs and synergies of water-supply constraints: An application to the capital region of China**

Water Research, 195, 116986

E. Borgomeo et al. (2020)

**Impact of green water anomalies on global rainfed crop yields**

Environmental Research Letters, 15, 124030

P. Haapasaari et al. (2021)

**Integrated governance for managing multidimensional problems: Potentials, challenges, and arrangements**

Marine Policy, 123, 104276

Y. Liu et al. (2021)

**Enhancing water and land efficiency in agricultural production and trade between Central Asia and China**

Science of The Total Environment, 780, 146584

R. N. Cuthbert et al. (2020)

**Global economic costs of aquatic invasive alien species**

Science of The Total Environment, 775, 145238

## Open positions: Post-doc on 'Feasibility of food system transitions' and Assistant or Associate Professor in Water Engineering

We seek a **Postdoctoral Researcher** in our team. Position is for a period of 3 years. The research will be part of the ERC funded project SOS.aquaterra, led by Associate Professor Matti Kummu. [Application DL 31.5.21](#) (click for more information)

**An open position of Assistant or Associate Professor** in water engineering within the area of municipal water engineering in the circular economy. [Application DL 30.6.21](#)



**Prof. Marko Keskinen was awarded by Water Association Finland's Young Water Professionals for his supportive work and motivation towards students, graduates and young professionals in the water sector.**

**Remote Work: Are We Thriving or Barely Surviving? - podcast. Our post-doc Maija Taka visited in two 'The Best Thing Today' - podcasts.**

**Aalto WAT contributed to the new [Water Strategy 2040 of Kemira Oyj](#).**

**Prof. Olli Varis started a three-year term at The Academy of Finland's IASA Committee in May.**

**WDRG members had several presentations at the EGU General Assembly 2021:**

Kummu et al: [One-third of global food production at risk for unprecedented climate conditions due to climate change](#)

Virkki et al: [Environmental flow envelopes: quantifying ecosystem-threatening flow alterations](#)

Chrysafi et al: [Quantifying Planetary Boundaries interaction strengths with expert knowledge elicitation](#)

Horton et al: [Identifying key drivers of peat-fires across Kalimantan's ex-Mega Rice Project area using machine learning](#)

## Latest blog posts

- [Engaging online learning?](#)
- [A "nexus" approach to quantify economic-social-environmental synergies and trade-offs of water-supply constraints](#)
- [Invisible soil water is critical for global food security](#)
- [Experiencing International Waters](#)
- [Providing water in a country dealing with crises left and right](#)

## WDRG celebrated Wappu with a Wappu-Quiz

